

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: KIRCHNER

In re Application of:

KLAUS KIRCHNER & HERBERT WAGNER

Int. Appl. No.: PCT/EP2004/053480

Int. Filing Date: December 15, 2004

For: ROTARY SUPPORT WITH ELASTIC
CONNECTION DEVICE FOR
INSTALLATION OF ELECTRIC
MACHINES IN TUBES

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S I R:

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of the Examiner to the references listed on enclosed form PTO-1449 which were cited in the International Search Report issued by the European Patent Office with regard to the corresponding International patent application No. PCT/EP2004/053480. Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

A copy of the foreign reference is submitted herewith along with form PTO-1449. The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

- ☐ This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under 1.53(d), so that no fee under 37 C.F.R. §1.97 is due.
- ☒ This Information Disclosure Statement is filed within three months of the date of entry of the national stage as set forth in 1.491 in an international application, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action after the filing of a request for continued examination under §1.114, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed after the issuance of a first office but before issuance of a final action under §1.113, or a notice of allowance under §1.311.
- ☐ This Information Disclosure Statement is submitted after the mailing of a final action or a notice of allowance, but before payment of the issue fee.
- ☐ The undersigned submits the following statement requesting consideration of this statement:
The undersigned hereby states:
 - ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement;
 - ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement

after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

- ☐ The fee of \$180.00 set forth in 1.17(p).
- ☐ The Commissioner is hereby authorized to charge the fee as set forth in 1.17(p), and any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.
- ☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

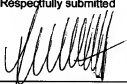
In order to satisfy the requirement under 37 C.F.R. §1.98(a)(3) for a concise explanation of the relevance of each item of information, applicant herewith submits a copy of the International Search Report.

The above-identified application discloses and claims an invention patentable over this prior art.

Entry of the references above set forth into the file of the above application is believed to be in order and is respectfully requested.

Respectfully submitted

By:


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Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

INFORMATION DISCLOSURE CITATION

Attorney's Docket No. KIRCHNER	Applicant KLAUS KIRCHNER et al.	Int. Appl. No. PCT/EP2004/053480
Int. Filing Date December 15, 2004	Group	Examiner

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date, if appropriate
	6,443,295	09-03-2002	Hill			
	5,180,344	01-18-1993	Hall			
	5,088,596	02-18-1992	Agnoff			
	3,056,054	09-25-1962	J. D. Christian			
	6,286,659	09-11-2001	Petrovic			
	4,242,782	01-06-1981	Hanneken et al.			
	4,399,598	08-23-1983	Page et al.			
	2,950,097	08-23-1960	A. M. Tohir			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation
	FR 2 826 080 A	12-20-2002	France			no

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner:	Date considered:	

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP2004/053480

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B65G23/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B65G F16B H02K

Documentation searched other than minimum documentation to the extent (that) such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 826 080 A (VENUSIAL) 20 December 2002 (2002-12-20) page 2, line 7 - page 4, line 5	1-3,5,6
X	US 6 443 295 B1 (HILL JASON J) 3 September 2002 (2002-09-03) column 4, line 47 - line 67; figure 1	1-3,5-7, 10
Y	----- US 5 188 344 A (HALL ET AL) 19 January 1993 (1993-01-19) column 2, line 26 - line 38 column 2, line 64 - line 66 figure 2	4
Y	----- US 5 088 596 A (AGNOFF ET AL) 18 February 1992 (1992-02-18) column 5, line 54 - column 6, line 37	4
A	----- US 5 088 596 A (AGNOFF ET AL) 18 February 1992 (1992-02-18) column 5, line 54 - column 6, line 37	1

-/-

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Specific categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (see specification)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to

involve an inventive step when the document is taken alone
"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"B" document member of the same patent family

Date of the actual completion of the international search

15 November 2005

Date of mailing of the international search report

12.12.2005

Name and mailing address of the ISA
European Patent Office, P.O. Box 5918 Patentamt
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Authorized officer

Sundqvist, S

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP2004/053480

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 056 054 A (CHRISTIAN JOSEPH DENNIS) 25 September 1962 (1962-09-25) the whole document -----	4,11,13
A	US 6 286 659 B1 (PETROVIC ZMAJ) 11 September 2001 (2001-09-11) column 4, line 1 - line 10; figures 1,2 -----	4
A	US 4 242 782 A (HANNEKEN ET AL) 6 January 1981 (1981-01-06) column 2, line 59 - line 68 column 3, line 24 - line 29 column 5, line 15 - line 28 figures 2,3 -----	4-7
A	US 4 399 598 A (PAGE ET AL) 23 August 1983 (1983-08-23) column 3, line 50 - column 4, line 10; figures 2,3 -----	4,8,9
A	US 2 950 097 A (TOMIR ANTHONY M) 23 August 1960 (1960-08-23) column 1, line 49 - line 65; figures 1,2 -----	8,9

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/053480**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
1-11, 13
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest



The additional search fees were accompanied by the applicant's protest.



No protest accompanied the payment of additional search fees.

The International Searching Authority has found that the international application contains multiple (groups of) inventions, as follows:

1. Claims: 1, 2-6 and 10

A rotary support as per claim 4 depending on claim 1, wherein components of the connecting device are distributed at regular intervals in the circumferential and/or axial direction on the outer surface of the hollow cylindrical member, and, as per claim 10 depending on claim 1, wherein the hollow cylindrical member comprises fixation elements on its outer circumference for fixing the elastic connecting device.

2. Claims: 1, 7, 8, 9

A rotary support as per claim 7 depending on claims 1, 5 and 6, wherein the moulded parts are each O-rings, and as per claim 8 depending on claim 1, wherein the elastic connecting device comprises one or more metal components.

3. Claims: 1, 11, 13

A rotary support as per claim 11 depending on claim 1, wherein the hollow cylindrical member forms in its assembled state together with the tube-like structure or the bore ducts or passages in the longitudinal direction through which coolant can flow.

4. Claims: 1, 12

A rotary support as per claim 12 depending on claim 1, wherein the elastic connecting device or components thereof are configured conically or are disposed conically relative to the longitudinal axis of the hollow cylindrical member.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/EP2004/053480

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 2826080	A	20-12-2002	NONE
US 6443295	B1	03-09-2002	AU 2759301 A CA 2393959 A1 MX PA02096654 A WO 0149591 A1
			16-07-2001 12-07-2001 30-09-2002 12-07-2001
US 5180344	A	19-01-1993	AT 146757 T CA 2070195 A1 DE 69306884 01 DE 69306884 T2 DK 586631 T3 WO 9318990 A1 EP 0586631 A1
			15-01-1997 24-09-1993 06-02-1997 22-05-1997 20-01-1997 30-09-1993 16-03-1994
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			18-06-1992 20-11-2000 31-08-1992
US 3056054	A	25-09-1962	GB 958683 A
			21-05-1964
US 6286659	B1	11-09-2001	AT 194321 T AU 2760697 A CA 2190689 A1 WO 9747541 A1 DE 69702453 01 DE 69702453 T2 EP 0906233 A1 ES 2151264 T3 JP 2000511856 T
			15-07-2000 07-01-1998 12-12-1997 18-12-1997 10-08-2000 08-03-2001 07-04-1999 16-12-2000 12-09-2000
US 4242782	A	06-01-1981	NONE
US 4399598	A	23-08-1983	CA 1175657 A1
			09-10-1984
US 2950097	A	23-08-1960	NONE